NORTH ANNA POWER STATION POTENTIAL POLLUTANTS TO SURFACE WATER

SYSTEM	RELEASE MECHANISM	RELEASE PATH	FREQUENCY AND AMOUNT	CHEMICAL	MAX. CONC.
Bearing Cooling (BC) Water	Vacuum Priming Pump and cooling water discharges	Turbine Building Sump	60 GPM total (one pump per unit at 30 GPM) Continual	Zinc Chloride - Nalco 7384 Phosphate - PCL 713 Biocide - Nalco 2894 Bromine - Acti Brom 1318 Sodium Hypochlorite	1.0 ppm; 500 gal – Turbine Building Basement 25 ppm; 2,600 gal – Turbine Building Basement 28 ppm; 400 gal tote – not in use 22 ppm; 400 gal tote – BC Tower 34 ppm; 330 gal tote – BC tower
	BC Pump Strainer Blowdown	Circulating Water	400 GPM for 3 min. intervals as requred		
	BC Line Draining During Maintenance	Turbine Building Sump	200,000 gals. Max. per unit		
	Blowdown	Circulating water	Maximum of 200 gpm		
Service Water Cooling Water	SW Line Draining During Maintenance	Sump, Storm Drain and Circulation Water	150,000 Gal max	Calgon TRC-256 ONDEO H-130 Calgon H-901G Calgon H-300 Calgon Poly-E-Z 7736	700 ppm; tanker truck to reservoir 25 ppm; 2000 gal, Chemical Additions Building 1 ppm; 1000 #, Chemical Additions Building 75 ppm; not in use 10 ppm; not in use
	Overflow	Circulating water when reservoir too full	Infrequent, Amount unknown		
	Blowdown - intermittent	Circulating water	Maximum of 70 gpm		
	Batch Blowdown	Discharge canal	As needed to maintain cycles of concentration 900 gpm		
Condenser Hotwell	Draining	Circulating water	200,000 gallons per Hotwell	ETA Hydrazine Ammonia	4.0 ppm; 400 gal tote – Turbine Building 1.0 ppm; 400 gal tote – Turbine Building 25 ppm; 55 gal drum - Turbine Building
Steam Generator Wet Layup	Draining	Circulating water	43,000 gallons per Steam Generator	Hydrazine Ammonia ETA	500 ppm 4 gal of NH4OH per SG 20 ppm